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DATE MAILED: 11/08/2005

APPLICATION NO.	FILING DATE		FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/642,219	08/18/2003		Shih-Chang Ku	BHT-3167-150	2219
	7590	11/08/2005		EXAMINER	
BRUCE H. T	ROXELL		THOMPSON, GREGORY D		
SUITE 1404 5205 LEESBU	JRG PIKE		ART UNIT	PAPER NUMBER	
FALL CHURG		2041	2835		

Please find below and/or attached an Office communication concerning this application or proceeding.

		AX				
	Application No.	Applicant(s)	-			
	10/642,219	KU, SHIH-CHANG				
Office Action Summary	Examiner	Art Unit	_			
	Gregory D. Thompson	2835				
The MAILING DATE of this communication Period for Reply	appears on the cover sheet with t	he correspondence address				
A SHORTENED STATUTORY PERIOD FOR RE WHICHEVER IS LONGER, FROM THE MAILING - Extensions of time may be available under the provisions of 37 CFF after SIX (6) MONTHS from the mailing date of this communication If NO period for reply is specified above, the maximum statutory pe - Failure to reply within the set or extended period for reply will, by st Any reply received by the Office later than three months after the m earned patent term adjustment. See 37 CFR 1.704(b).	COMMUNICATE OF THIS COMMUNICATE 1.136(a). In no event, however, may a reply individual to the source of the source	FION. be timely filed from the mailing date of this communication. FOONED (35 U.S.C. § 133).				
Status						
1)⊠ Responsive to communication(s) filed on file	ling on 8/18/03 and election on 8	/29/0.				
<u> </u>						
3) Since this application is in condition for allo	wance except for formal matters	, prosecution as to the merits is				
closed in accordance with the practice und	er <i>Ex parte Quayle</i> , 1935 C.D. 1	I, 453 O.G. 213.				
Disposition of Claims						
4)⊠ Claim(s) <u>1-11</u> is/are pending in the applicat	ion.					
4a) Of the above claim(s) <u>3,4 and 7-11</u> is/ar						
5) Claim(s) is/are allowed.						
6)⊠ Claim(s) <u>1,2,5 and 6</u> is/are rejected.						
7) Claim(s) is/are objected to.						
8) Claim(s) are subject to restriction an	d/or election requirement.					
Application Papers						
9) The specification is objected to by the Exam	niner.					
10) The drawing(s) filed on is/are: a)		the Examiner.				
Applicant may not request that any objection to						
Replacement drawing sheet(s) including the cor	rection is required if the drawing(s) i	s objected to. See 37 CFR 1.121(d).				
11)☐ The oath or declaration is objected to by the	Examiner. Note the attached Of	ffice Action or form PTO-152.				
Priority under 35 U.S.C. § 119						
12)⊠ Acknowledgment is made of a claim for fore a)⊠ All b)□ Some * c)□ None of:		9(a)-(d) or (f).				
1. Certified copies of the priority docum						
2. Certified copies of the priority docum	, ,					
3. Copies of the certified copies of the p	•	eived in this National Stage				
application from the International But * See the attached detailed Office action for a		eived				
Attachment(s)						
Notice of References Cited (PTO-892)	4) Interview Summ					
 P)	C	ail Date nal Patent Application (PTO-152)				
Paper No(s)/Mail Date	6) Other:					

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1. Applicant's election without traverse of Figs. 7A-7B and 9 with claims 1-11 readable thereon in the reply filed on 8/29/05 is acknowledged.

Claims 3 - 4 and 7-11 with drawn from consideration since they read on nonelected Species II Figs. 8 and 9 not elected Figs. 7A-7B and 9. For example, fin 61 in Figs. 7A-7B is not spaced from chip 11 by a predetermined space as claimed in claims 3 and 7 and fin 61 in Figs. 7A-7B has no bottom portion having at least one opening for the encapsultant to fill as claimed in claims 8 and 10.

2. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

- (b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.
- 3. Claims 1-2 and 5-6 are rejected under 35 U.S.C. 102(b) as being clearly anticipated by Hsu et al.

Hsu et al teaches an IC package (Figs. 4.1-5.3) having an encapsultant 5 having a PCB side (the side where substrate 1 with balls 6 would be mounted on a PCB), chip 2 inside the encapsultant 5 and a heat dissipation fin (broad term) 82 or 82' implanted in 5 directly contacting chip 2 and having a metal portion 8 or 8' thereof extending outside the open side of 5 (side where 82 and 82' would enter into the encapsultant 5). The fin 82 or 82' is implanted into encapsultant 5 before the encapsultant is cured at a predetermined position with the fin 82 or 82' above chip 2 with the encapsultant 5 and

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fin 82 or 82' held in position (broad term) by gravity for example before the encapsulant 5 is cured.

4. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure. Rostoker et al and Mostafazadeh et al teach packages.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Gregory D. Thompson whose telephone number is (571) 272-2045. The examiner can normally be reached on Mon-Thur from 6;00AM to 4: PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Lynn Feild, can be reached on (571) 272-2800,ext. 35. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Gregory D Thompson

Primary Examiner

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